7677 WIRE DRAG

Diag'd. on Diag. Ch. No. 1222-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey WIRE DRAG(WRECK INVESTIGATIONS)

Field No. PBS-4148 WD Office No. H-7677 W. D.

LOCALITY

State Virginia

General locality Chesapeake Bay

Locality Vicinity of York River Entrance

194 7-148

CHIEF OF PARTY

R.L.Pfau and A.C.Thorson

LIBRARY & ARCHIVES

DATE Sept.28, 1949

B-1870-1 (1)



DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

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HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. PBS- 4148 WD

REGISTER NO. H-7677 WD

StateVIRGINIA
General locality CHESAPEAKE BAY
VICINITY OF Locality NEAR YORK SPIT LIGHT YORK RIVER ENTRANCE
Scale 1:40,000 Date of survey 8 Jan. 1947- 5 Aug. 191948
Vessel PARKER, BOWEN & STIRNI
Chief of Party R.L. PFAU - A.C. THORSON
Surveyed by
Protracted by HUGH L. PROFFITT
Soundings penciled by
Soundings in TAXINAS feet
Plane of reference MLW
Subdivision of wire dragged areas by H.L.PROFFITT
Inked byWW. FRAZEL
Verified by V. Evans III.
Instructions dated 12 SEPT. 1944, 24 JULY 1946, 5 Mar, 19 48
Remarks:

U. S. GOVERNMENT PRINTING OFFICE

DESCRIPTIVE REPORT TO ACCOMPANY

WIRE DRAG SURVEY FIELD SHEET NO. H-7677 WD (1947-48) PBS-WD-4148

PARKER, BOWEN & STIRNI Lt. Comdr. A.C. Thorson, Comdg.

AUTHORITY

This survey was executed in compliance with instructions for Project CS-313 dated 12 September 1944 and CS-326, dated 24 July 1946 and 5 March 1948.

DATE OF SURVEY

Field work on this sheet commenced on 8 January 1947 and was completed on (5 August 1948).

SCOPE

This survey was made in order to complete Items 11,12,13 and 25 of the original instructions. An additional item was called for by Director's letter dated 13 Sept.1948 in the vicinity of Back Creek, Virginia. This latter item was subsequently assigned and executed by the HILGARD-WAINWRIGHT.

SURVEY METHODS

Standard dual control methods were used with the drag strips controlled by three point saxtant fixes on shore objects. The tests were made by the tender using a graduated pipe attached to a graduated piece of 1/8" airplane cord with the whole suspended from a standard buoy head mounted on a float. The float consists of five small aluminum toggles held together by a wooden framework. The pipe was coated with a mixture of white lead and oil prior to each test in order to securately determine the point of contact with the ground wire.

The Ships PARKER, BOWEN & STIRNI were used as guide vessel, end vessel and tender respectively.

CONTROL

Natural objects ashore located by triangulation together with numerous hydrographic signals located by sextant cuts were used to control this survey. (Fixes for hydro. signals recorded in Vols. 1 & 2 of field records)

RECORDS

The tide reducers and lift corrections have been entered in the records to the nearest 0.5 foot. The depth diagrams have been drawn and all entries have been checked.

"A" and "B" days were originally plotted on a 1:20,000 scale. These days have been transferred to PBS-WD-4148 boat sheet and are incorporated in this survey.

TIDES

A tide gage was not maintained by this party. Drag settings were based on predicted tides for Hampton Roads. The actual tide curves drawn from data furnished by the Washington Office were used in processing the records.

All references to effective depth unless otherwise specified are those shown in the completed records.

OBSTRUCTIONS, CLEARANCES, DISCREPANCIES, ETC.

Special reports relative to this survey were submitted to the Director during the progress of the field work. Duplicates of these reports were furnished the Supervisor, Southeastern District. Copies of these reports are attached hereto and become a part of this report.

RECOMMENDATIONS

No additional work is recommended.

Raymond H. Tryon, Jr. Lt. Comdr. US C & GS

for:

A.C. Thorson Lt. Comdr. US C & GS Commanding Ships PARKER, BOWEN & STIRNI

OBSTRUCTION DATA SHEET

37° 22.65' 76° 09.55'	37° - 16° 52 -	37° - 18 * 848* 1	37° - 18 - 194m 8.27	/ 37° - 19°,39 76° - 11°,110	37° - 49° - 564m 76° - 13° - 716m	76° - 09° - 40 1 09.05'	37° - 221,95 / 76° - 091,620	LOCATION
40'	24-27:	13.17 10.45 341 /	8.27 34" 9.73	44 9	19.28	3.08 19.05 31-36	40°	GENERAL DEPTH FEET
\$5°	1	% 9 7	31.	ı	63	% 9 1	1	HANG
7 <i>K</i>	1 ′	15 B	13 A 20 A	1.	51 G	7 <u>/</u> M	t	POSITION NUMBER
30'	211-221	27 ~	89 80 7	387	221	271	351	MAXIMUM CLEARANCE FEET
1-192	1-15 P	1•20 D	6-13 C	14⊷27 F	1-13 N	8-16 M	1-16 K	POSIT ION NUMBER
Item 13	Item 11	Item 25	Item 25	Charted Wreck	Item 12 s	Item 13 ~	Charted Wreck	CHARACTER OF OBSTRUCTION
9	Remove from		.	Remove from ~/ Chart	shoolest of 4 hangs' (*	Remove from Chart	REMARKS

STATISTICS FOR SHEET NO. Ships PARKER, BOWEN & STIRNI

(PBS-WD-4148 (Project CS-326)

Date 1947	Day Letter	Stat. Miles Drag	Number Positions	No. H. L.	Soundings Fath.
8 Jan.	. A	1.7	21	2	2
16 Jan.	B	1.6	15	ì	-
1948		•		-	-
19 Apr.	C	3,4	28	F4	
20 Apr.	D	2.8	20	•	
21 Apr.	E	3.4	22	-	•••
26 Apr.	F	3.1	27		••
29 Apr.	G	9.6	51		
3 May	H	2.8	28	***	3
5 May	J	3.8	21	-	•••
6 May	K	1.9		•••	1
10 May	Ĺ	3.3	18	. ***	•
11 May	M		28	-	4
13 May		3.8	26	-	1
13 MKA	N	1.4	13		*
5 Aug.	P	1.2	15	•	←
	Totals	43.8	333	3	

Total square statute miles dragged - 8.6

418 P.O. Building, Norfolk, Virginia

11 August 1948

To:

The Director

U.S. Coast & Geodetic Survey

Washington, D.C.

Subject:

Special Report on Wrecks (Ch. L. 627, 1948)

Item No. 11.

This report covers the investigation of the wreck in Mobjack Bay, which lies about 1.7 miles 204 degrees true from New Point Comfort Light. The area is covered with fish traps which project into the channel on both sides. In addition there are numerous spar buoys in the vicinity of the wreck marking the limits of cyster beds. Thru cooperation with the Miles Fish & Oyster Company several of these spare buoys were removed to facilitate dragging operations.

We were informed by the Miles representative and fishermen in the area that the wre/ck no longer existed, that oyster dredges were constantly hauled over the area.

A drag having an effective depth of 22 feet cleared the wrock.

It is impossible to cover an area of one half mile radius from charted position of wreck due to fish traps. The charted position of the wreck was verified by local oystermen.

It is recommended that the wreck symbol be removed from the charts.

/S/ A.C. Thorson Lt. Comdr.

cc: Supervisor S.E. District.

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418 P.O. Building, Norfolk, Virginia 22 April 1948

To:

The Director

UuS. Coast & Geodetic Survey

Washington, D.C.

Subject:

Obstructions noted below (Office Item No. 25) (Ch. L. 300,1948)
Project CS=326 Special Report, completed wire drag for Recommended Charting 1910bstr wartid Project CS-326

E.Obs. Let. 37-13.27) Long. 76-09.73)

W. Obs. Lat. 37-13.17

Recommended Charting Depth 27 feet.

21 Obstrahated

Long. 76-10.39)

Day Date Drag Data

8 Jan. 1947 - 4000 ft.drag, North-eff. depth 30.5 ft. hung on Ely obstruction.

- 5000 ft.drag, South-eff.depth 30.5 ft.

hung on both Ely and Wly obstruction. В 10 Jan. 1947 - 3000 ft.drag, North, eff.depth 24. ft. passed over Wly obstruction of depth 295 ft., hung on Wily. obstr.

19 Apr. 1948 - 4000 ft.drag, South, eff.depth 29.0 ft. C

passed over Ely obstruction. - 4000 ft.drag, South, eff.depth 25.5 ft.

passed over Wly obstruction. D 20 Apr. 1948 - 4000 ft. drag, South, eff.depth 27.5 ft. passed over Wly ebstruction.

Nature of obstruction not determined.

Above recommended charting depth are based on predicted tides and therefore are subject to correction. (correction shown in red)

> /S/ A.C. Thorson Lt. Comdr. C & GS Comdg. Ships PARKER, BOWEN & STIRNI

418 P.O. Building, Norfolk, Virginia

17 May 1948

To:

The Director U.S. Coast & Geodetic Survey Washington, D.C.

Chart 122

Subject:

Special Report on Obstructions Found (Ch. L. 385, 1948)

1. Item 13, Off Wolf Trap Light, Chesapeake Bay

Obstruction found at Lat. 37° -23.08: Long. 76° -09.05*

[26] wreck charters Drag set at effective depth of (2818hung 27.26 Toleared. The currently charted wreck about 1/2 mile west of this 121 w 10-6-49 and depth of 245 e-General depth in vicinity by fathometer 35 to 37 feet obstruction was cleared with a drag set to an effective depth of 35 feet. (It is recommended that this wreck

- 136) wreck charted symbol be removed from the charts.

Item 12, East of New Point Comfort

Obstruction No. 1 Lat. 37 -19.30 32 Long. 76° -11.50 48

Drag set to effective depth of 241 - hung Drag set to 221 - cleared General depth in vicinity by fathometer 36 Recommended charting depth 2210

122/

Obstruction No. 2 Lat. 37 -19.30:48 Long. 76° -11.58° 52'

Drag set to effective depth of 29% feet - hung 26 2826" - cleared Too close to obstal Recommended charting depth 28 feet. This obstruction lies near charted 29 feet spot.

Charting

Obstr. #4 Ø 37-19.28 2 76° 11.52" HUNG - 23' (35-50G)

Cleared - 22'(1-13N)

Obstruction No.3

Iat. 37° -19.87:40' Long. 76° -11.50143

Drag set to effective depth of 25g feet - hung - cleared

|22 | wreck charted , too close to obstrol for diarting General depth in vicinity by fathemeter 36 feet. Recommended charting depth 254feet.
This obstruction is too close to Obstruction No. 1 to warrant trying to clear within 2 feet.

the above obstructions was cleared with drag set to effective 137 wreck depth of 37 feet. It is recommended that this wreck such as the removed from the second such as the second secon be removed from the chart.

/S/ A.C. Therson

Supervisor S.E. District,

LIST OF SIGNALS

To Accompany

H-7677 W.D.

TRIANGULATION STATIONS

STA - OBSTRUCTION LIGHT, 1947

WOLF - WOLF TRAP L. H., 1898-1932

NEW - NEW POINT COMFORT, L. H., 1871-1932

TUE - TUE MARSH, L. H., 1900-32

YORK - YORK SPIT L. H., 1900-32

FOX - FOX HILL, MUNICIPAL W.T., 1939

HYDROGRAPHIC STATIONS

TREE - Vol. 2, pg. 11 & 12, Guide Lch.

SHED - " " " " " " "

PILE - " " 12 " "

FISH - Vol. 1, pg. 25, Tender Record

LONE - Vol. 2, pg. 13, Guide Lch.

BAY - Vol. 2, pg. 2, End Lch.

PEP - " " pg. 1, " "

TRAP - Vol. 2, pg. 13, Guide Lch.

BRUSH - Vol. 2, pg. 12, Guide Lch.

FLAG - " " 13, " "

SPIT - Vol. 2, pg. 1, End Lch.

ADDENDUM

To Accompany

WIRE DRAG SURVEY H-7677 (Field No. PBS-4148 W.D.)

ITEM 12. Lat. 37°-19.3', Long. 76°-11.5'

Four obstructions were found in this vicinity. However, to avoid a congestion of lines on smooth sheet, the only lines plotted were those showing the minimum hang and the maximum clearance. The remaining drag lines are being submitted on an overlay.

(overlay tracing in Desc. Report)

ITEM 13. Lat. 37°-22.65', Long. 76°-09.55'

On Drag ling 1-18k the drag hung and then eleared two minutes later. This obstruction? was not mentioned by the field party, other than by drag notes in the record book. This hang is located about 560 meters S.S.E. of the charted obstruction and may possibly be the one indicated. Effective depth of drag on this line was 35.

Respectfully submitted,

Hugh L. Proffitt Cartographer

Norfolk, Virginia 21 September 1949

Approved and forwarded.

Earl O. Heaton

Supervisor, SE Dist.

GEOGRAPHIC NAMES Survey No. H-7677	WD	ot.	No. Or	of John Control	of Land Land	Or local Ways	Cuide of	Mod Million Market	15 Jight Je	\$/_
WIRE DRAG Name on Survey	o ^c	Ho. Or	C C	D 40	E E	Or You	G	H	S. K	
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Charpeake B	y			15	**				4	2
York River				("	••)				3
Walk Tran									UsbB	5
Wolf Trap New Point Com	art									6
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Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H-7677 WD WIRE DRAG

Records accompanying survey:		
•		
Boat sheets 2; sounding vols1; w	ire dra	g vols. 5;
bomb vols; graphic recorder rolls	;	
special reports, etc. 1 A & D Sheet, 1 Overlay strip tracings	Template rporated in	, 1 envel Drag
	•••••	• • • • • • • • • • • • •
The following statistics will be submitted wi rapher's report on the sheet:	th the	cartog=
Number of positions on sheet		. 333
Number of positions checked		
Number of positions revised		•••••
Number of soundings revised (refers to depth only)		• • • • •
Number of soundings erroneously spaced		••••
Number of signals erroneously plotted or transferred		
Topographic details	Time	6 Ars.
Junctions	Time	••••
Verification of soundings from graphic record	Time	
Verification by	30 hrs.	Date 13. Ock. 49
Reviewed by Time	20 hrs.	Date 20 Dec. 1949

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7677 W.D.

FIELD NO. PBS-4148

Virginia, Chesapeake Bay, Vicinity of York River Entrance Surveyed in Jan. 1947 and Aug. 1948 Scale 1:40,000 Project No. CS-326

Soundings:

Control:

Hand lead

Sextant fixes on shore signals

Chief of Party - R. L. Pfau and A. C. Thorson Surveyed by - R. L. Pfau and A. C. Thorson Protracted by - H. L. Proffitt Soundings plotted by - H. L. Proffitt Verified and inked by - L. V. Evans III Reviewed by - T. A. Dinsmore, December 20, 1949 Inspected by - R. H. Carstens

1. Shoreline and Signals

The partially delineated shoreline is from topographic quadrangles T-8315, T-8316, T-8327, T-8328 and T-8329 (1944-45) and serves only to show the relative positions offshore of the wire-dragged areas.

The signals originate with previously established triangulation stations. The fixes for the supplementary hydrographic signals are recorded in volumes 1 and 2 of the field records of the survey.

2. Adjoining Surveys

The present survey covers detached areas and joins no other wire-drag, surveys.

3. Comparison with Contemporary Surveys

No contemporary surveys are registered at the present time in the areas covered by the present survey.

4. Comparison with Chart 494 (Latest print date 11/7/49) Chart1222 (Latest print date 6/20/49)

A. Hydrography

Charted depths are in harmony with the effective drag depths of the present survey, except for minor differences, as for example, the 29-and 30-ft. shoal spots (Chart 1222) in the vicinity of lat. 37° 23.60', long. 76° 09.25', which were cleared by an effective drag depth of 30 ft. on the present survey.

The present survey was applied to the charts from advance information of the survey contained in Chart Letters 300, 385 and 627 (1948), copies of which are attached to the Descriptive Report. The following discrepancies are noted:

- (1) The wreck charted in lat. 37° 22.95', long. 76° 09.60', from H.O. Notice to Mariners No. 40 (1917) with a clearance depth of 36 ft. from the present survey (now revised to 35 ft.) is considered to be disproved in this location. Two obstructions were found in this vicinity either one of which is probably the reported wreck.
- (2) A 35-ft. temporary grounding occurred in depths of about 40 ft. in lat. 37° 22.65', long. 76° 09.55', which is about 560 meters south of the wreck discussed in the preceding paragraph. This apparent obstruction was cleared with an effective depth of 30 ft.
- (3) The clearance depth of 26 ft. charted in lat. 37° 23.08', long. 76° 09.05', has now been revised to 27 ft. The character of this obstruction was not ascertained.
- (4) The wreck charted in lat. 37° 19.35', long. 76° 11.10', from H.O. Notice to Mariners No. 20 (1925) with a clearance depth of 37 ft. from the present survey is considered to be disproved in this location. The four closely grouped obstructions found about 500 meters westward are probably the remains of the reported wreck.

B. Aids to Navigation

Present survey positions of aids to navigation are in agreement with the charted positions and adequately mark the features intended.

5. Condition of Survey

- a. The field records and Descriptive Report are complete and comprehensive.
- b. The field plotting was accurate.
- c. The results obtained on the present survey are summarized as follows: (Item numbers correspond to those in the Project Instructions):

Item 11: The previously charted wreck in lat. 37° 16.52', long. 76° 17.52', originated with H.O. Notice to Mariners No. 46 (1943). Falling in depths of about 25 ft. the reported wreck was cleared by an effective drag depth of 21-22 ft. Local fishermen stated that the wreck no longer exists and that oyster dredges are hauled constantly over the area. The wreck, therefore, is considered to be non-existent.

Item 12: The previously charted wreck in lat. 37° 19.35', long. 76° 11.10', originated with H.O. Notice to Mariners No. 20 (1925). Falling in depths of about 42 ft., this spot was cleared by a maximum effective drag depth of 37 ft. The obstructions found about 500 meters westward are probably the remains of the reported wreck.

Item 13: The previously charted wreck in lat. 37° 22.95', long. 76° 09.60', originated with H.O. Notice to Mariners No. 40 (1917). Falling in depths of about 40 ft. the reported wreck was cleared by a maximum effective drag depth of 35 ft. Two other obstructions were found in this general vicinity, either one of which is probably a part of the reported wreck.

Item 25: The reported 30-ft. obstruction previously charted in lat. 37° 13.22', long. 76° 10.35', originated with H.O. Notice to Mariners No. 44 (1944). Two obstructions were encountered in this vicinity on the present survey. In lat. 37° 13.15', long. 76° 10.45', an obstruction hung at 29 ft. was subsequently cleared by an effective drag depth of 27 ft., and in lat. 37° 13.25', long. 76° 09.75', the other obstruction which hung at 31 ft. was later cleared by an effective depth of 29 ft. The obstructions were found in depths of 32-34 ft.

d. The Descriptive Report, with copies of special reports by the hydrographer attached, discuss in detail the investigation of the items covered in paragraph c. above.

6. Compliance with Project Instructions

The present survey adequately complies with the Project Instructions.

H-7677 W.D. (1947-48)-4-

7. Additional Field Work

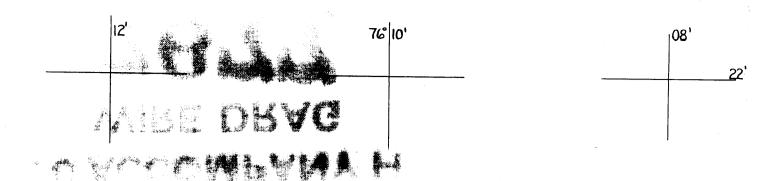
No additional field work is recommended.

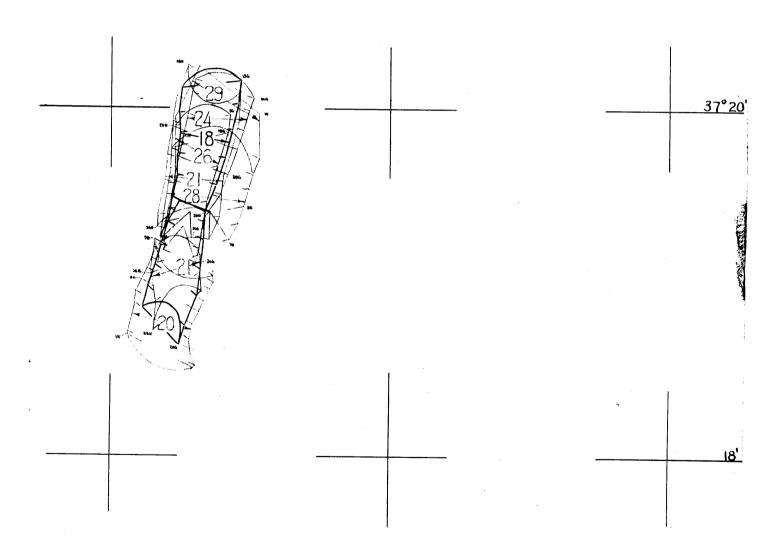
Examined and approved:

Chief, Nautical Chart Branch

Casper M. Durgin Chief, Division of Charts

K. G. Crosby W. M. Scaife Chief, Section of Hydrography Chief, Division of Coastal Surveys





OVERLAY TO ACCOMPANY - H 7677

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NAUTICAL CHARTS BRANCH

SURVEY NO.	H-7677 WI) Will	UMA:

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
10-6-49	/223	P.H. Andros	Before After Verification and Review Partially Applied
12/27/49	78	SIE	,,
12/28/49	/222		Before After Verification and Review (without signature)
1-30-51	494	J. X Enton	Rates After Verification and Review Complete, Applie
9-26-51	Recon.	J. HEaton	Refere After Verification and Review
1953	Reconstr. 494	H.E.M.	n n n
11-9-59	562	R.E. Elkins	Before After Verification and Review
			opplied in part them chart 494.
			Before After Verification and Review
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			201010 IIICI VEIIICANDII AND INCVIEW
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

TIDE NOTE FOR HYDROGRAPHIC SHEET

5 October 1949

Division of Hydrography and Topography:

Division of Charts: R. H. Carstens

Plane of reference approved in 6 volumes of sounding records for

HYDROGRAPHIC SHEET 7677

Locality Chesapeake Bay, Virginia

Chief of Party: R. L. Phau and A. C. Thorson in 1947-48 Plane of reference is mean low water, reading 3.6 ft. on tide staff at Hampton Roads (NOB) 13.4 ft. below B. M. 6 (1927)

Height of mean high water above plane of reference is 2.5 feet.

Condition of records satisfactory except as noted below:

E.C. McKay
Section
Chief, Division of Tides and Currents.

U. S. COVERNMENT PRINTING OFFICE 75667